

# Jackson Bean

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## EDUCATION

*The Ohio State University*

Honors College of Engineering

B.S. Computer Science and Engineering & Mathematics

Expected Graduation: May 2026

Columbus, OH

GPA: 4.00/4.00

## QUALIFICATIONS

- **Programming Languages:** JavaScript, TypeScript, Java, C/C++, HTML/CSS, Ruby, Python, x86 Assembly
- **Frameworks & Libraries:** Express.js, Middleman, Ruby on Rails, React, Tailwind CSS
- **Developer Tools:** MongoDB, SQLite, Linux, UNIX, Microsoft Office, GDB, Makefile, Git, Vite, Valgrind, VS Code, Xcode, Chrome DevTools, Postman, Google Calendar Web API, Canvas RESTful API
- **CS Coursework:** Data Structures & Algorithms, Operating Systems, AI/ML, Databases, Networking
- **Math Coursework:** Calculus I-III, Linear/Abstract Algebra, Real Analysis, Statistics, Differential Equations

## WORK EXPERIENCE

*The Ohio State University College of Arts and Sciences*

Student Instructional Associate

August 2024 – Present

Columbus, OH

- Teach Business Algebra twice a week to 72 students divided into two separate sections
- Answer at least 20 weekly questions about course material in a concise and understandable manner
- Prepare, grade, and proctor 10 weekly quizzes and four monthly exams over semester-long course content

*The Ohio State University College of Industrial & Systems Engineering*

Summer Research Intern

May 2024 – September 2024

Columbus, OH

- Worked with the Cognitive Systems Engineering Lab (CSEL) to develop two new contingency plans for UAMs
- Developed C++ code to run more than 40 simulations that enacted parameter-determined flight pathing
- Plotted results of simulations on six dynamic charts and graphs using Python with Pyplot Dash

*The Ohio State University Department of Biomedical Informatics*

Summer Research Intern

May 2023 – August 2023

Columbus, OH

- Developed machine learning code in Python to read over one million instances of patient data from Google Cloud and classify outcomes with more than 80% accuracy
- Analyzed code results using R and Python with Matplotlib and presented findings at a poster session with over 60 professors within the department in attendance

## PROJECTS

*Full-Stack Employee Database Web Application*

March 2025

- Built a back end for an API using MongoDB to store data and TypeScript with Express to handle HTTP routing
- Constructed a front-end component using React with Typescript to display results of GET requests to the API

*Personal Portfolio Website*

July 2024 – March 2025

- Built a portfolio website from scratch using JavaScript, HTML, and CSS
- Utilized UX principles to select visuals and maximize accessibility across various devices

## HONORS AND ACTIVITIES

- Morrill Excellence Scholarship recipient
- Involved member and participant in Ohio State's Cybersecurity, OpenSource, and Artificial Intelligence clubs
- Experienced in building high-performance desktop computers optimized for programming and gaming